

Claims

1. (original) An inspection system for inspection of an object, comprising:

- at least one image recording unit carried by an inspector,
- a display unit,
- a storage unit and
- a contact free positioning unit,

the storage unit being arranged to store at least one image taken by said image recording unit in relation to a position given by said positioning unit and/or a time index, said system further including means for storing images digitally and performing a search for an event by means of a time, position and/or event index, and means for connecting a time and/or a position index with said position and image and a note, wherein said image recording unit is arranged to be movable on an inspecting entity.

2. (original) The system as claimed in claim 1, further comprising means for storing images digitally and performing a search for an event by means of a time , position and/or event index.

3. (original) The system as claimed in claim 1, wherein said positioning unit comprises:

a transmitter/receiver placed at a known position adjacent the object to be inspected,
a receiver/transmitter placed on said inspecting entity, whereby the transmitter/receiver sends a coded sound signal and the receiver/transmitter responds with a coded signal, which is received by the transmitter/receiver and the position of the receiver/transmitter is decided with assistance of time and direction.

4. (original) The system as claimed in claim 1, wherein said positioning unit comprises:

a number of probes placed at known positions, a transmitter placed on the inspecting entity, whereby the transmitter sends a sound signal, and the probes receive the signal and decide the position of the transmitter with assistance from a time difference between the probes, and the

known positions are received either by placing the probes against the object or connecting the probes to a positioning system to which the object is connected.

5. (original) The system as claimed in claim 1, wherein said positioning unit comprises:

a digital compass module which includes a number of magnetic axes and tilting sensors and compensates for the inclination of the magnetic axes, such that the compass module keeps track of its position.

6. (original) The system as claimed in claim 1, wherein said positioning unit includes an inertia gyro to sense direction and speed, and to keep track of its position with reference to a given start position.

7. (original) The system as claimed in claim 1, wherein said inspecting entity is a diver.

8. (original) The system as claimed in claim 1, wherein said inspecting entity is a robot.

9. (original) The system as claimed in claim 1, further comprising a database arranged to store incoming data including a model of the object, one or more images recorded by the image recording unit, a position of the positioning unit, sound from a sound recording unit and remarks provided with time index.

10. (original) The system as claimed in claim 9, wherein input signals of the database comprise:

- (a) one or more drawings of the object which comprises a ship, which are re-processed to a model of the ship,
- (b) sound on one or more channels, which are converted to a standard format and provided with a time index,

- (c) video signal which is converted to a standard format, provided with time- index and eventually compressed,
- (d) position being converted to a relative position provided with a time index, and
- (e) remarks which are brought in via a user interface, provided with a time index and stored.

11. (original) The system as claimed in claim 1, wherein said positioning means is a GPS (Global Positioning System base).

12. (canceled)

13. (canceled)

14. (original) A submarine based inspection system for inspection of an object, comprising:

- at least one image recording unit carried by a robot,
- a storage unit and
- a positioning unit,

the storage unit being arranged to store at least one image taken by said image recording unit in relation to a position given by said positioning unit and/or a time index, said system further including means for storing images digitally and performing a search for an event by means of a time, position and/or event index, and means for connecting a time and/or a position index with said position and image and a note, wherein said image recording unit is arranged to be movable on an inspecting entity.

15. (original) The system of claim 14, wherein said robot is arranged with three image recorders.

16. (original) The system of claim 14, wherein said object is a pipeline.

17. (original) An air based inspection system arranged on a flying craft for inspection of an object, comprising:

- at least one image recording unit carried by said flying craft,
- a storage unit and
- a positioning unit,

the storage unit being arranged to store at least one image taken by said image recording unit in relation to a position given by said positioning unit and/or a time index, said system further including means for storing images digitally and performing a search for an event by means of a time, position and/or event index, and means for connecting a time and/or a position index with said position and image and a note, wherein said image recording means is arranged to be movable on an inspecting entity.

18. (original) The system of claim 17, wherein said object includes roads, overhead power lines, forests, bridges, and/or geographic features.

19. (original) A ground based inspection system arranged on a vehicle for inspection of an object, comprising:

- at least one image recording unit carried by said vehicle,
- a storage unit and
- a positioning unit,

the storage unit being arranged to store at least one image taken by said image recording unit in relation to a position given by said positioning unit and/or a time index, said system further including means for storing images digitally and performing a search for an event by means of a time, position and/or event index, and means for connecting a time and/or a position index with said position and image and a note, wherein said image recording means is arranged to be movable on an inspecting entity.

20. (original) The system of claim 19, wherein said object includes roads, overhead power lines, forests, bridges, and/or geographic features.

21. (original) A ground based inspection system carried by a person for inspection or event recording, comprising:

- at least one image recording unit carried by said person,
- a storage unit and
- a positioning unit,

the storage unit being arranged to store at least one image taken by said image recording unit in relation to a position given by said positioning unit and/or a time index, said system further including means for storing images digitally and performing a search for an event by means of a time, position and/or event index, and means for connecting a time and/or a position index with said position and image and a note, wherein said image recording means is arranged to be movable on an inspecting entity.

22. (original) A system for inspection of interior of a pipe system, comprising:

- at least one image recording unit carried by a robot,
- a storage unit and
- a positioning unit,

the storage unit being arranged to store at least one image taken by said image recording unit in relation to a position given by said positioning unit and/or a time index, said system further including means for storing images digitally and performing a search for an event by means of a time, position and/or event index, and means for connecting a time and/or a position index with said position and image and a note, wherein said image recording means is arranged to be movable on an inspecting entity.